



32608-A-sequence list with table 3.ST25.txt
SEQUENCE LISTING

<110> Novartis AG
Krause, Andreas
Niese, Detlef
Raulf, Friedrich
Scherer, Andreas

<120> Diagnosis of chronic rejection

<130> 4-32608A

<140> PCT/EP03/09292
<141> 2003-08-21

<150> US 60/405,225
<151> 2002-08-22

<160> 38

<170> PatentIn version 3.3

<210> 1
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 1
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60
ttt
63

<210> 2
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 2
ggctttgcatgcgctctatt
20

<210> 3
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 3

gctgcatctc cttgctcca

19

<210> 4
<211> 23
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 4
cccctctgcc tctccccacc ttc

23

<210> 5
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 5
ggagcccaa aacctacca

19

<210> 6
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 6
aagcaagaag cagcagcca

19

<210> 7
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 7
tcgcgtgttc cccaagcgc

19

<210> 8
<211> 21

32608-A-sequence list with table 3.ST25.txt

<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 8
tgggagttac ctgaggggaag c

21

<210> 9
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 9
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18

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<213> Artificial

<220>
<223> Primer sequence

<400> 10
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30

<210> 11
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 11
gcaaggaggg caggacact

19

<210> 12
<211> 22
<212> DNA
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<220>
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<400> 12

32608-A-sequence list with table 3.ST25.txt

caaacatcac taagggcagg tg

22

<210> 13
<211> 22
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 13
caggcactga gcaagcaggc cc

22

<210> 14
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 14
tggccttctc agtttgggc

19

<210> 15
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 15
ttcagttatt ccgaacggga a

21

<210> 16
<211> 24
<212> DNA
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<220>
<223> Primer sequence

<400> 16
aaagggatgg aggctttacg gccca

24

<210> 17
<211> 21

32608-A-sequence list with table 3.ST25.txt

<212> DNA
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<220>
<223> Primer sequence

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ctgagccacc ttgctgtct t

21

<210> 18
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 18
tttgaatccc aggcaacttt g

21

<210> 19
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 19
tctcctggga cgagaaggac tcatcca

27

<210> 20
<211> 26
<212> DNA
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<220>
<223> Primer sequence

<400> 20
aacttgccaa ttctgtgaat gttatt

26

<210> 21
<211> 22
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 21

32608-A-sequence list with table 3.ST25.txt

gggacatgtt acccaatcac aa

22

<210> 22
<211> 33
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 22
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33

<210> 23
<211> 23
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 23
tggaaattct gctcattct tgc

23

<210> 24
<211> 22
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 24
tctgatgtca tggccaaatt tg

22

<210> 25
<211> 22
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 25
tctgatgtca tggccaaatt tg

22

<210> 26
<211> 24

32608-A-sequence list with table 3.ST25.txt

<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 26
gacactacta aagctcccag ctcc

24

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<211> 20
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<213> Artificial

<220>
<223> Primer sequence

<400> 27
ttctggaatc agctgctgga

20

<210> 28
<211> 31
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 28
ttcatgctcc atttttaacc acttgcctct t

31

<210> 29
<211> 1709
<212> DNA
<213> homo sapiens

<400> 29
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60

catgaccacc acatttctgc aaacttcttc ctccaccttt ggggggtggct caacccgagg

120

gggttccttc ctggctgggg gaggtggctt tgggtggggg agtctctctg ggggaggtgg

180

aagccgaagt atctcagctt cttctgctag gtttgtctct tcagggtcag gaggaggata

240

tgggggtggc atgaggggtct gtggctttgg tggaggggct ggtagtggtt tcggtggagg

32608-A-sequence list with table 3.ST25.txt

300

ctttggaggg ggcgttggtg ggggttttgg tggtagcttt ggtggtggcg atggtggtct

360

cctctctggc aatgagaaaa ttaccatgca gaacctcaat gaccgcctgg cctcctacct

420

ggacaaggta cgtgccctgg aggaggccaa tgctgacctg gaggtgaaga tccatgactg

480

gtaccagaag cagaccccag ccagcccaga atgcgactac agccaatact tcaagacct

540

tgaagagctc cgggacaaga tcatggccac caccatcgac aactcccggg tcctcctgga

600

gatcgacaat gccaggctgg ctgcggacga cttcaggctc aagtatgaga atgagctggc

660

cctgcgccag ggcgttgagg ctgacatcaa cggcttgccg cgagtcctgg atgagctgac

720

cctggccagg actgacctgg agatgcagat cgagggcctg aatgaggagc tagcctacct

780

gaagaagaac cacgaagagg agatgaagga gttcagcagc cagctggccg gccagggtcaa

840

tgtggagatg gacgcagcac cgggtgtgga cctgaccgt gtgctggcag agatgagga

900

gcagtacgag gccatggcgg agaagaaccg ccgggatgtc gaggcctggt tcttcagcaa

960

gactgaggag ctgaacaaag aggtggcctc caacacagaa atgatccaga ccagcaagac

1020

ggagatcaca gacctgagac gcacgatgca ggagctggag atcgagctgc agtcccagct

1080

cagcatgaaa gctgggctgg agaactcact ggccgagaca gagtgccgct atgccacgca

1140

gctgcagcag atccaggggc tcattggtgg cctggaggcc cagctgagtg agctccgatg

1200

32608-A-sequence list with table 3.ST25.txt

cgagatggag gctcagaacc aggagtacaa gatgctgctt gacataaaga cacggctgga

1260

gcaggagatc gctacttacc gcagcctgct cgagggccag gatgccaaga tggctggcat

1320

tggcatcagg gaagcctctt caggaggtgg tggtagcagc agcaatttcc acatcaatgt

1380

agaagagtca gtggatggac aggtggtttc ttcccacaag agagaaatct aagtgtctat

1440

tgcaggagaa acgtcccttg ccactcccca ctctcatcag gccaaagtga ggactggcca

1500

gagggcctgc acatgcaaac tccagtcctt gccttcagag agctgaaaag ggtccctcgg

1560

tcttttattt cagggctttg catgcgctct attccccctc tgctctccc caccttcttt

1620

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1680

aataaagaat tacttttcct ttgcaaat

1709

<210> 30

<211> 1359

<212> DNA

<213> homo sapiens

<400> 30

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cactaaaacg tccctgccta caaatcatcc ggccaaatta tgagttcatt gtattatgcg

120

aatgctttat tttctaaata tccagcctca agttcggttt tcgctaccgg agccttccca

180

gaacaaactt cttgtgcgtt tgcttccaac cccagcgcc cgggctatgg agcgggttcg

240

ggcgcttcct tcgccggctc gatgcagggc ttgtaccccg gcgggggggg catggcgggc

300

32608-A-sequence list with table 3.ST25.txt

cagagcgcgg ccggcgtcta cgcggccggc tatgggctcg agccgagttc cttcaacatg
360
cactgcgcgc cctttgagca gaacctctcc ggggtgtgtc ccggcgactc cgccaaggcg
420
gcgggcgcca aggagcagag ggactcggac ttggcggccg agagtaactt ccggatctac
480
ccctcgatgc gaagctcagg aactgaccgc aaacgaggcc gccagaccta caccgctac
540
cagaccctgg agctggagaa ggaatttcac tacaatcgct acctgacgcg gcggcggcgc
600
atcgagatcg cgcacgcgct ctgcctcacg gaaagacaga tcaagatttg gtttcagaac
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cggcgcgcatga agtggaaaaa ggagaacaag accgcgggcc cggggaccac cggccaagac
720
agggtgaag cagaggagga agaggaagag tgagggatgg agaaagggca gaggaagaga
780
catgagaaag ggagacgaag agaagcccag ctctgggaac tgaatcagga aactcaaac
840
gaatagggaa gtaaaaaaac aaaacaaaaa acaaaaaaaaa acaaaaaaaaa accctattta
900
aatgaaagga gtttaaaaac attttttaag gagggagaaa ggagaaattt tggtttttca
960
acactgaaaa aatagtacct ataggaaagt ctgtcagggt tggttttttt gtacaatatg
1020
aaaaggacat tatctacctg ttctgtagct ttctggaatt tacctcccct tttctatggt
1080
gctattgtaa ggtctttgta aaatcttgca gttttgtaag ccctctttaa tgctgtcttt
1140
gtggactgtg ggtctggact aaccctgtgg ttgcctgccc tcctgtgcct ccgccttccc
1200
agcagcggca ccaagggggc ttagggagcc ccaaaccta ccactcgcgt gttccccaag
1260

32608-A-sequence list with table 3.ST25.txt

cgccttgctg ctgctgcttg cttcccgctc ccagcccca tgctcccttt acattctgtg
1320

tgtatctaaa ggatggaaaa ataaaacgca attaaaaat
1359

<210> 31
<211> 1370
<212> DNA
<213> homo sapiens

<400> 31
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60

cggctgccgc atcgaatgca tattcttcag cgagttccac ccacgctgg gaccaagat
120

cacctatcag gtcctgaag acttcattc cagagagctg ttgacacag tccaagtgt
180

catcatcacc aagccagagc tgcagaacaa gcttatcact gtctagagag cagcttcgtg
240

tccatggagg agagcaagca gaagttggtg cccatcatga ccatcttgct ggaggagcta
300

aatgcctcag gccggtgcac tctgccatt gatgagtcca acaccatcca cttgaagggtg
360

attgagcagc ggccagacc tccggtggcc caggagtatg atgtacctgt ctttaccaaa
420

gacaaggagg atttcttcaa ctacagtgg gacctacta cacaacaaat cctgccctac
480

attgatgggt tccgccacat ccagaagatt tcagcagagg cagatgtgga gctcaacctg
540

gtgcgcttg ctatccagaa cctgctgtac tacggcggtg tgacactggt gtccatcctc
600

cagtactcca atgtatactg cccaacgccc aagggtccagg acctggtaga tgacaagtcc
660

ctgcaagagg catgtctatc ctacgtgacc aagcaagggc acaagagggc cagtctccgg
720

32608-A-sequence list with table 3.ST25.txt

gatgtgttcc agctatactg cagcctgagc cctggcacta ccgtgcgaga cctcattggc
780

cgccaccccc agcagctgca gcatgttgat gaacggtcag aggagaattt gctggggcat
840

ttgggagtta cctgagggaa gctagaccct ttatgtctct caggagccct ggatcatggg
900

gcactgccaa tccaagcagg cttcctggag atgatgggct acagagacaa aattgaaggg
960

agactacagg aaagggttgg cctgcctgaa agaaggcctg gccagggcgt caccctgtcc
1020

tctgatcctc accctaggaa gctgatccag ttcgggctta tgaagaacct catcaggcga
1080

ctacagaagt atcctgtgcg ggtgactcgg gaagagcaga gccaccctgc ccggctttat
1140

acaggctgcc acagctatga cgagatctgc tgcaagacag gcatgagcta ccatgagctg
1200

gatgagcggc ttgaaaatga cccaacatc atcatctgct ggaagtgagg ctggtagtga
1260

ctggatggac acattgctgt gggtagtccc tcctactagg aggcttgta tactgtctag
1320

aggttgactc ttagttctgt aaataaagac atccatttca aacaaaaaaa
1370

<210> 32
<211> 2736
<212> DNA
<213> homo sapiens

<400> 32
ttgcactctc ccacaccctt ttcttttcgt ccgctcttcg cttatttctc ccgccgtctc
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ctctgcataa gaaggggaac gaaagatggc ggcggaaacg ctgctgtcca gtttgttagg
120

actgctgctt ctgggactcc tgttaccgc aagtctgacc ggcggtgtcg ggagcctgaa
180

32608-A-sequence list with table 3.ST25.txt

cctggaggag ctgagtgaga tgcgttatgg gatcgagatc ctgccgttgc ctgtcatggg
240
agggcagagc caatcttcgg acgtggtgat tgtctcctct aagtacaaac agcgctatga
300
gtgtcgctg ccagctggag ctattcactt ccagcgtgaa agggaggagg aaacacctgc
360
ttaccaaggg cctgggatcc ctgagttggt gagcccaatg agagatgctc cctgcttgct
420
gaagacaaag gactggtgga catatgaatt ctgttatgga cgccacatcc agcaatacca
480
catggaagat tcagagatca aaggtgaagt cctctatctc ggctactacc aatcagcctt
540
cgactgggat gatgaaacag ccaaggcctc caagcagcat cgtcttaaac gctaccacag
600
ccagacctat ggcaatgggt ccaagtgcga ccttaatggg agggcccggg agggcgaggt
660
tcggttcctc tgtgacgagg gtgcaggtat ctctggggac tacatcgatc gcgtggacga
720
gcccttgctc tgctcttatg tgctgaccat tcgcactcct cggctctgcc cccaccctct
780
cctccggccc ccaccagtg ctgcaccaca ggccatcctc tgtcaccctt ccctacagcc
840
tgaggagtac atggcctacg ttcagaggca agccgactca aagcagtatg gagataaaat
900
catagaggag ctgcaagatc taggccccca agtgtggagt gagaccaagt ctggggtggc
960
accccaaaag atggcaggtg cgagcccgcac caaggatgac agtaaggact cagatttctg
1020
gaagatgctt aatgagccag aggaccaggc cccaggaggg gaggaggtgc cggctgagga
1080
gcaggaccca agccctgagg cagcagattc agcttctggt gctcccaatg attttcagaa

32608-A-sequence list with table 3.ST25.txt

1140

caacgtgcag gtcaaagtca ttcgaagccc tgcggatttg attcgattca tagaggagct

1200

gaaaggtgga acaaaaaagg ggaagccaaa tataggccaa gagcagcctg tggatgatgc

1260

tgcagaagtc cctcagaggg aaccagagaa ggaaaggggt gatccagaac ggcagagaga

1320

gatggaagaa gaggaggatg aggatgagga tgaggatgaa gatgaggatg aacggcagtt

1380

actgggagaa tttgagaagg aactggaagg gatcctgctt ccgtcagacc gagaccggct

1440

ccgttcggag gtgaaggctg gcatggagcg ggaactggag aacatcatcc aggagacaga

1500

gaaagagctg gaccagatg ggctgaagaa ggagtcagag cgggatcggg caatgctggc

1560

tctcatatcc acttcaaca aactcatcaa aagactggag gaaaaacaga gtccagagct

1620

ggtgaagaag cacaagaaaa agagggttgt ccccaaaaag cctccccat caccacaacc

1680

tacagaggag gatcctgagc acagagtccg ggtccgggtc accaagctcc gtctcggagg

1740

ccctaatacag gatctgactg tcctcgagat gaaacgggaa aaccacagc tgaaacaaat

1800

cgaggggctg gtgaaggagc tgctggagag ggagggactc acagctgcag ggaaaattga

1860

gatcaaaatt gtccgccccat gggctgaagg gactgaagag ggtgcacgtt ggctgactga

1920

tgaggacacg agaaacctca aggagatctt cttcaatatc ttggtgccgg gagctgaaga

1980

ggcccagaag gaacgccagc ggcagaaaga gctggagagc aattaccgcc ggggtgtggg

2040

ctctccaggt ggggagggca caggggacct ggacgaattt gacttctgag accaacacta

32608-A-sequence list with table 3.ST25.txt

2100

cacttgaccc ttcacggaat ccagactctt cctggactgg cttgcctcct cccacactcc

2160

ccaccctgga acccctgagg gccaaacagc agagtggagc tgagctgtgg acctctcggg

2220

caactctgtg ggtgtggggg ccctgggtga atgtgtctgc ccctgtggc agccaccttg

2280

agacctcacc gggcctgtga tatttgctct cctgaactct cactcaatcc tcttcctctc

2340

ctctgtggct tttcctgtta ttgtccccta atgataggat attccctgct gcctacctgg

2400

agattcagta ggatcttttg agtggagggtg ggtagagaga gcaaggaggg caggacactt

2460

agcaggcact gagcaagcag gccccacct gcccttagtg atgtttggag tcgttttacc

2520

ctcttctatt gaattgcctt gggatttctt tctccctttc cctgcccacc ctgtccccta

2580

caatttgtgc ttctgagttg aggagccttc acctctgttg ctgaggaaat ggtagaatgc

2640

tgcctatcac ctccagcaca atcccagcga aaaagggtgtg aagcacccac catgttcttg

2700

aacaatcagg tttctaaata aacaactgga ccatca

2736

<210> 33

<211> 859

<212> DNA

<213> homo sapiens

<400> 33

ggtgtacagc aagctgtgat tcttgggaaa actaaaaaag ttttctggga caacggggcc

60

ccagagtgat ggcagacaat gtcagccact aacaacatag cccaggcccga gaagctggtg

120

gaacagctac gcatagaagc cgggattgag cgcataagg tctccaaagc ggcgtctgac

32608-A-sequence list with table 3.ST25.txt

180

ctcatgagct actgtgagca acatgctcgg aacgaccccc tgctggtcgg agtccttgcc

240

tcggagaacc cctttaagga caagaaacct tgtattattt tataactgtg ttctcatatg

300

ttctctctct ctctctttct ttctctctct ctctctgtct ctgtctctgt ctcaggcagg

360

gcatcattca gtaattagct caaacaaaac atctcaagtc cccaaaacct ttaattccaa

420

aagaaatccc ccctctaccc cgccaaaaaa ggcgttccca ccgcccggat ggggtagaat

480

ggaccttgta ggtggagatg aattttcagg tccgacccca tggccttctc agtttgggcc

540

aaaagggatg gaggctttac ggccacttcc cgttcggaat aactgaaatc cccagcgatg

600

gggtaacaat tttttaaaac tctcgattgc cgtttcaatt gtggaccggc gccgaggggg

660

aaagggaggt gacttcgccc ggtggcaata gttccgggag aattggccat tggtaaaaaag

720

acttcatagg gtcactggaa tgctttgtgt tgtttttaag tagaggtaaa attgagatgg

780

ggggcgggag gtgacatcat gaagtttttt ggaaatatct ctttatttaa aaaattgtta

840

ctccatacgg ctaaaaaag

859

<210> 34

<211> 1838

<212> DNA

<213> homo sapiens

<400> 34

ggcgggggtg gcagggttct accacgtgta ggataatcat tcattggtgt gtccaaaaat

60

ggggtctgct cctgctacct tgacccttcc ctttctcttg cttctctcct catcatcatt

32608-A-sequence list with table 3.ST25.txt

120

cccaacaaca tcctctgcc aacgtaagtt tcatttgggc aaaaattgag

180

cctcacaata aacaccctga agacacaact tgacttataa catagtgcac agcaagagct

240

acatccaagt gtcctattat ctgtgattat tttcttaatg acaatgtaca tatgccccca

300

tccatgttaa ttattatcta attccattag gggtcacgtc ttttctttct gggacactat

360

cctactatat ccatacttat agatttcaat atagatgatt gtgccatctt ctgtagcccc

420

tccgctctac tcattccttc caccatctgc agagatttga agtttggggc tatgcatgaa

480

acccaacact aaattttgca agtcaagtga ccaaaaaagg gggaggcatt ttgaagatag

540

aacctctatt ttaaaaagag aagttcaact cataaacgtg attgataggt ggctgattta

600

tttaggtttt gtcaagctat ctatcaaagt aatggtacag ttacccatct actcaaatat

660

ctgatttatc tcaccatcca attatctacc cacctgtctt cctctctagc aatctattta

720

ctgtttatca atctatcaat gtaattgtct aacactcctt tctattctct ccctactact

780

cactatcaat tcatcccat atgaatctct aaccatattg tatctctccc actgtattca

840

tttatacacc atcagcagac attggcatct tcaaaattat ctttcaactt ctgtgaaagc

900

caacgatctc acaggttaac aaaatacaaa agcaatacc tgtgttggtg actctttaaa

960

atctggtatc ctatccaccc aaggagaca ctaacagata ggccaaagta gcaagcta

1020

32608-A-sequence list with table 3.ST25.txt

gatcagtcac tcactattcc cggaagagcc tgtgttttct aaaacacttt cttgggaagc

1080

agatcagcct agaaaagttt tgattagcac tgtggttttc cttttgact tgaaggacaa

1140

agggtgccagc ctttatgctt ctctcaaccc ttcaagaaag tacatgtcag gaacctatgg

1200

ctggctttcc ttagcagcaa gaacttgaga gaaaaacaca tctgtctctg caatgcaaag

1260

tgaagagtcc acccgctga gtgggatgac ttcagctaga gtctcctttc tgctccagtt

1320

ctgggttaat ctgtttgaaa actatccagt aaaaagctga tggaggccaa ttacatggcg

1380

ggtgtattga caactctggt atttgtttca ggaagctctt ctaagctgag ggcacttgag

1440

caactgactt aattttcaag cacttgatta acacaacact gcaaacagaa gggagaaagt

1500

gtcagtgaca cagtttcctc tgatgcagct gcttctccaa tggctttggg gaagaacttc

1560

accagctctt caggttcaaa gcagaccag catacaaaca agagctgagc cacctttgct

1620

gtcttgtctc ctgggacgag aaggactcat ccagcaaagt tgcctgggat tcaaaataaa

1680

ggcattgcag accgcacagg tgtgctgcag ggactgatcc acagagagga tgagaatgca

1740

gcatcaatcg cagacctgcc ctgcctcagt tggaaaacct tttcaggccc tcagtctaaa

1800

aaataaaaaa tatgagcacc aaaaaaaaaa aaaaaaaaaa

1838

<210> 35

<211> 1053

<212> DNA

<213> homo sapiens

<400> 35

32608-A-sequence list with table 3.ST25.txt

gaaaaagctc cctggaaaaa ctctgttgcc acatgcacgt gccctgttac tcctccagcc

60

agccagtgct gccagcattt tattgtgtaa aagtccaaat aaataagggc ctgcatgcaa

120

cctttatctt caaaaactag gttttatatg taaaatgtga cttgggaaat gattctgttt

180

attaactggc tgggattttt catttctatg aaagtttcaa acatctccag tactttataa

240

aatcccaaca attgctgtaa gtcagcactt tgggtccactc agcccaccca gccacttgc

300

aactctgact cttcactgaa tcatatttgg gaagtttggg tagggtgagg ctatcttctt

360

caagattatt ttctcatatg tctgtctgtc accttgtaaa ccatgagact cctgggtatt

420

tgcattgtaac ttctttgagg aagttaccac catctctgat atagacacac tttttgagtt

480

gcagtttctg ttagaatttt ttggagacta acttgccaat tctgtgaatg ttattgaata

540

tttaaaaagc tgggtctgta atgggaggca ttttattagc tgttgtgatt gggtaacatg

600

tccccttaga tttcctgatt taaaattata caaaattact atttttgata aaataaagga

660

acacctacag aaaattaagt ttctaagatg tttctatact tcattagaaa agattttatt

720

actattactt atggttattg gtgattaaca cttaatgcgt ctctctgat tttgtgttcc

780

atgaggtgct tggaacattt ggagtgtctt gtgcgaggga catacagtga tataggaaat

840

ttaaaaatta aaataatacc caaaaccac tttatcagat atggtattgt gatggttaat

900

attatgtgtc aacttggtga ggctatggcg cccatgtgtt tgggtcaaaca ctagcctaga

960

32608-A-sequence list with table 3.ST25.txt

tggttgctgtg aatatatttt gtagatgtga ttaacattta caatcagttg attttaagta

1020

aagcagattc tcatccaaaa aaaaaaaaaa aaa

1053

<210> 36
<211> 754
<212> DNA
<213> homo sapiens

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<222> (1)..(12)
<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (17)..(20)
<223> n is a, c, g, or t

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<221> misc_feature
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<222> (89)..(89)
<223> n is a, c, g, or t

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<222> (93)..(93)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (203)..(203)
<223> n is a, c, g, or t

<220>
<221> misc_feature

32608-A-sequence list with table 3.ST25.txt

<222> (220)..(220)
<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

<220>
<221> misc_feature
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>
<221> misc_feature
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<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<221> misc_feature
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<223> n is a, c, g, or t

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<221> misc_feature
<222> (336)..(338)
<223> n is a, c, g, or t

<220>
<221> misc_feature
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32608-A-sequence list with table 3.ST25.txt

<220>
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 <223> n is a, c, g, or t

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 <222> (353)..(353)
 <223> n is a, c, g, or t

<220>
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 <222> (358)..(363)
 <223> n is a, c, g, or t

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 <222> (365)..(368)
 <223> n is a, c, g, or t

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 <222> (372)..(373)
 <223> n is a, c, g, or t

<220>
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 <222> (375)..(378)
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<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (382)..(382)
 <223> n is a, c, g, or t

<220>
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 <222> (385)..(752)
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<400> 36
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60

ctggcttcat tccctgaact ggctttagna acnctggcag tctagcttat aacccccagg

120

ctgactagag aactcaaggt aaaagcagcc caagaaaaac agaccaacag aaaagcaatg

180

agagaaagga tgaaggttcc ctntctgatg atccattaan tggaagagta acccaagaaa

240

acatcatgga ntccaagant cagtggatcc agcacaanaa ggnggnaaag ggnnattcag

32608-A-sequence list with table 3.ST25.txt

300

ctnggtctta ncaggtgact gtcaaanannn ggnntnnncc cagnntgnnc tgntcaannn

360

nnntnnnnca gnnntnnnnn gncannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

600

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

660

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn

720

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngg

754

<210> 37

<211> 2064

<212> DNA

<213> homo sapiens

<400> 37

aaaatggggg ttggtgtaaa tctggggggtg taatgttatc atatatcact ctacctcgta

60

aaaccgacac tgaaagctgc cggacaacaa atcacaggtc aaaattatga gttcttcgta

120

ttatgtgaac gcgcttttta gcaaataatac ggcggggact tctctgttcc aaaatgccga

180

gccgacttct tgctcctttg cgcccaactc acagagaagc ggctacgggg cgggcgccgg

240

cgcttcgcc tcgaccgttc cgggcttata caatgtcaac agcccccttt atcagagccc

300

ctttgcgtcc ggctacggcc tgggcgccga cgcctacggc aacctgccct gcgcctccta

32608-A-sequence list with table 3.ST25.txt

360

cgacaaaaac atccccgggc tctgcagtga cctcgccaaa ggcgcctgcg acaagacgga

420

cgagggcgcg ctgcatggcg cggctgaggc caatttccgc atctaccctt ggatgcggtc

480

ttcaggacct gacaggaagc ggggccgcca gacctacag cgctaccaga cgctggagct

540

ggagaaggag ttccacttca accgctacct gacctggcgc cgccgcattg aaatcgccca

600

cgcgctctgc ctcaccgagc gccagattaa gatctggttc cagaaccgcc gcatgaagtg

660

gaagaaagag cataaggacg aaggtccgac tgccgccgca gctcccgagg gcgccgtgcc

720

ctctgccgcc gccactgctg ccgcggacaa ggccgacgag gaggacgatg atgaagaaga

780

ggaagacgag gaggaatgag gggccgatcc gggggcctct ctgcaccgga cagtcggaaa

840

agcgtcttta agagactcac tggttttact tacaaaaatg gaaaaaaaaa aaaaaaaga

900

aggaagggct ggtcatggtg gaggtgcgca aggagaaaca gttccagaaa gtgatcacag

960

aatacctgaa tgcccaagag tcagcctggc gctcttggct gacctccaac attttaatct

1020

aagtggccgg gacaaaattg accaaaacta gggggaggag gggaccagta gtactaatga

1080

cttactacag gtcattatga aataagctaa caatactgaa tctttggcga gaaaattttg

1140

ctgctaaggg cactgcactg taatttgta gtaaaggcta atatagtaga gattaaagct

1200

ccgttgagga caggtgcctt gtctttaaca cgttgtattc atcacattta acataggagt

1260

32608-A-sequence list with table 3.ST25.txt

aattgctgag ggatgacttg attgtactac ggtgagatga aggggtaaga tttcttcccc

1320

atcaccagta gcctccctag ctggtgtccc tgtctccata ctctcctgaa tccaccttcc

1380

actattgtcc gctggccctt tccagcctgt aaactggaca gttttcattc ctctgcctaa

1440

catccagtcg tagcagccca tcccatctct ttaaggataa aacccaaatt cttggtatag

1500

taaagctaaa ccaagcgctc tccctggaag ggctcctgtg tttcaccaaa gctgacttac

1560

gtactttccc catcttccca ggcattctgt acgtcgttac atttatcata ttggaaggta

1620

ataaatgatc ttgttttcct cttttcctgg gctccttatt aagagcaggg aacctaattt

1680

atattcctcag ggcagaacag gtattcagaa aagaataatg caagaggaaa aaagtttaat

1740

ataaactagg gagatcgtaa cattggctaa tcacgagcaa atatttatag aagaccact

1800

gtgtgctaaa tggctcctaa tatatactta agatattctc ccagcttgga aattctgctc

1860

acttcttgct cttgcttgct tctctggtgg gcttccatcc aaatttggcc atgacatcag

1920

atcatatggt taatattaac aaatattgta taaattgttt tcatacttaa tatccaacag

1980

gttgtcaatt tacgtactac tgggtgcctta tctgttttta ctgtcccata cactgcccac

2040

ctggaataag cttagtgtta aaaa

2064

<210> 38

<211> 2723

<212> DNA

<213> homo sapiens

<400> 38

32608-A-sequence list with table 3.ST25.txt

ggaggctgaa atccccagac gccggttttc tgggctgggc tttctgctta ctcactcctt
 60
 ctccctcttt ctggatttta ccgaccgttc gcgaaacagc tttccacaca atggagcttc
 120
 atgtcctcgt gcaggaagta ctcacgact gatgtggcag actttgctcc ctgacaaaac
 180
 taaagaactc tcctattcat ggaggcgaac actgaggatg ctttccacat gaaccctgaa
 240
 gtgaacttct gatacatttc ctgcagcaag agaaggcagc caacatgaag gaaaatgtgg
 300
 catctgcaac cgttttcact ctgctacttt ttctcaacac ctgccttctg aatggacagt
 360
 tacctcctgg aaaacctgag atctttaaat gtcgtttctcc caataaggaa acattcacct
 420
 gctggtggag gcctgggaca gatggaggac ttctaccaa ttattcactg acttaccaca
 480
 gggaaggaga gacactcatg catgaatgtc cagactacat aaccggtggc cccaactcct
 540
 gccactttgg caagcagtac acctccatgt ggaggacata catcatgatg gtcaatgcc
 600
 ctaaccagat gggaagcagt ttctcggatg aactttatgt ggacgtgact tacatagttc
 660
 agccagaccc tcctttggag ctggctgtgg aagtaaaaca gccagaagac agaaaaccct
 720
 acctgtggat taaatggtct ccacctacc tgattgactt aaaaactggt tggttcacgc
 780
 tcctgtatga aattcgatta aaacccgaga aagcagctga gtgggagatc cattttgctg
 840
 ggcagcaaac agagttaaag attctcagcc tacatccagg acagaaatac cttgtccagg
 900
 ttctgtgcaa accagaccat ggatactgga gtgcatggag tccagcgacc ttcattcaga
 960

32608-A-sequence list with table 3.ST25.txt

tacctagtga cttcaccatg aatgatacaa ccgtgtggat ctctgtggct gtcctttctg
1020
ctgtcatctg tttgattatt gtctgggcag tggctttgaa gggctatagc atggtgacct
1080
gcatctttcc gccagttcct gggccaaaaa taaaaggatt tgatgctcat ctgttgaga
1140
agggcaagtc tgaagaacta ctgagtgcct tgggatgcca agactttcct cccacttctg
1200
actatgagga cttgctggtg gagtatttag aagtagatga tagtgaggac cagcatctaa
1260
tgtcagtcca ttcaaaagaa cacccaagtc aaggtatgaa acccacatac ctggatcctg
1320
aactgactc aggccggggg agctgtgaca gcccttcctt tttgtctgaa aagtgtgagg
1380
aaccccaggc caatccctcc acattctatg atcctgaggt cattgagaag ccagagaatc
1440
ctgaaacaac ccacacctgg gacccccagt gcataagcat ggaaggcaaa atcccctatt
1500
ttcatgctgg tggatccaaa tgttcaacat ggccttacc acagcccagc cagcacaacc
1560
ccagatcctc ttaccacaat attactgatg tgtgtgagct ggctgtgggc cctgcaggtg
1620
caccggccac tctgttgaat gaagcaggta aagatgcttt aaaatcctct caaaccatta
1680
agtctagaga agagggaaa gcaaccagc agaggagggt agaaagcttc cattctgaga
1740
ctgaccagga tacgccctgg ctgctgcccc aggagaaaac cccctttggc tccgctaaac
1800
ccttgatta tgtggagatt cacaaggta acaaagatgg tgcattatca ttgctaccaa
1860
aacagagaga gaacagcggc aagcccaaga agcccgggac tcctgagaac aataaggagt

32608-A-sequence list with table 3.ST25.txt

1920

atgccaaggt gtccgggggtc atggataaca acatcctggt gttggtgcc gatccacatg

1980

ctaaaaacgt ggcttgcttt gaagaatcag ccaaagaggc cccaccatca cttgaacaga

2040

atcaagctga gaaagccctg gccaaacttca ctgcaacatc aagcaagtgc aggctccagc

2100

tgggtggttt ggattacctg gatcccgcat gttttacaca ctctttcac tgatagcttg

2160

actaatggaa tgattggtta aaatgtgatt tttcttcagg taacactaca gagtacgtga

2220

aatgctcaag aatgtagtca gactgacact actaaagctc ccagctcctt tcatgctcca

2280

tttttaacca cttgcctctt tctccagcag ctgattccag aacaaatcat tatgtttcct

2340

aactgtgatt tgtagattta ctttttgctg ttagttataa aactatgtgt tcaatgaaat

2400

aaaagcacac tgcttagtat tcttgaggga caatgccaat aggtatatcc tctggaaaag

2460

gctttcatga tttggcatgg gacagacgga aatgaaattg tcaaaattgt ttaccataga

2520

aagatgacaa aagaaaattt tccacatagg aaaatgccat gaaaattgct ttgaaaaac

2580

aactgcataa cctttacact cctcgtccat tttattagga ttaccctaat ataaccattt

2640

aaagaaagaa tgcatccag aacaaattgt ttacataagt tcctatacct tactgacaca

2700

ttgctgatat gcaagtaaga aat

2723